



ORD's State Engagement Efforts

Briefing to the National Exposure Research Laboratory Manager's Call

September 5, 2018

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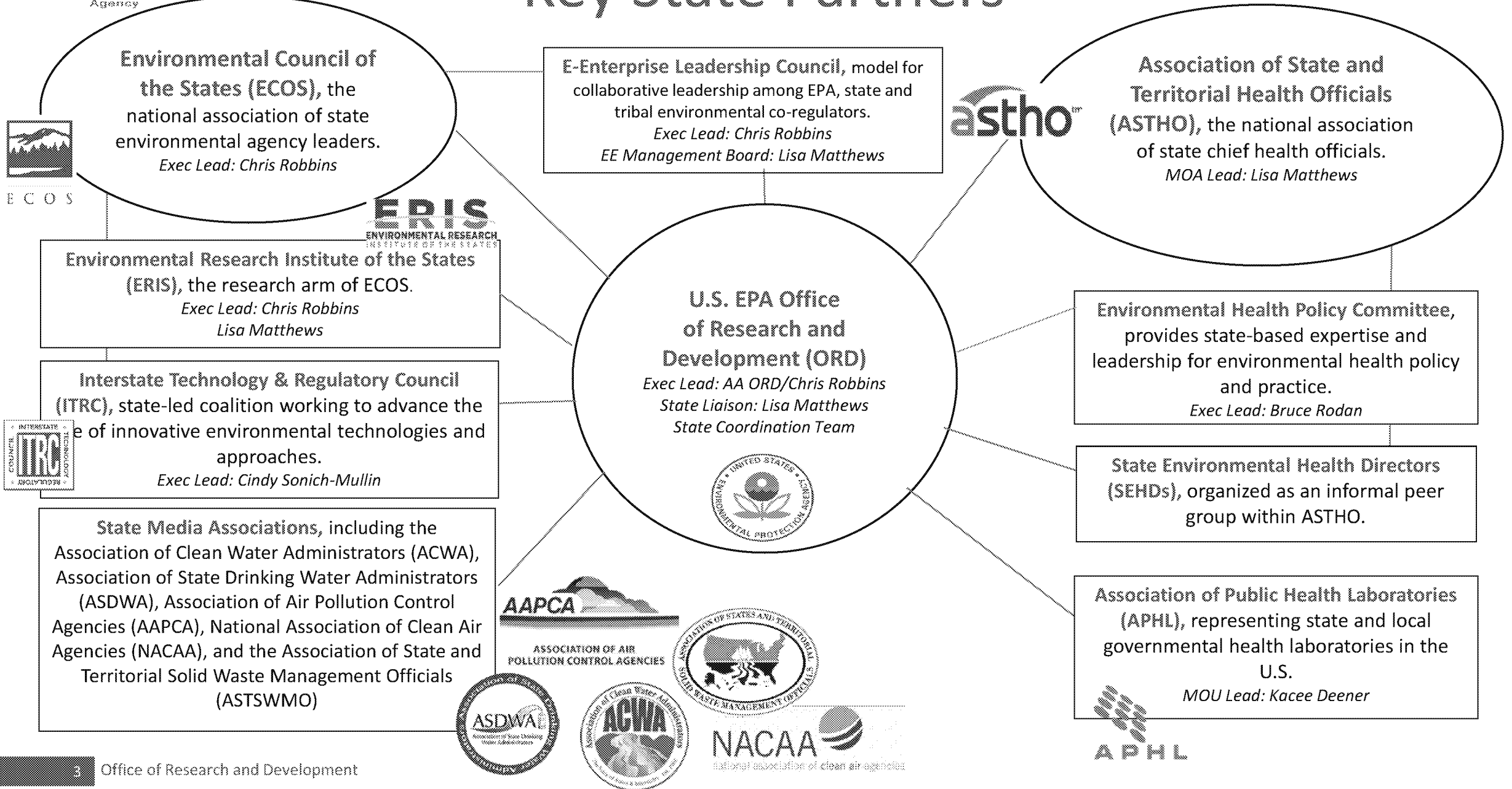
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Outline

- Key State Partners
- Goals of ORD State Engagement
- Work with ECOS/ERIS
- EPA-ECOS-ASTHO Memorandum of Agreement
- Opportunities for NERL

Key State Partners



Goals for ORD State Engagement

- Connect state research needs with Agency priorities to ensure that EPA's R&D is useful and practical to help states address their on-the-ground problems.
- Work with state environmental health leaders on joint efforts that focus on integrating environment and public health.
- Improve communication of ORD research results and transfer knowledge of these results to states through fact sheets/stories, webinars, trainings and conferences, and ensure that ORD's scientific findings and tools are accessible to decision makers.
- Engage states early by translating ORD research products and tools to help states address their environment challenges, and provide feedback on how ORD research can more effectively support states' efforts to protect the environment and public health.
- Strengthen the states' capacities in science and technology, share information on EPA's scientific and technical capabilities, and foster collaboration with states on environmental research/science.
- Develop and implement strategies to improve outreach, and continue to build and expand partnerships with states.

State Engagement

Recent Accomplishments

ORD regularly engages with state agencies to ensure states' environmental science needs are being met and to provide science-based tools, approaches and methods, technical support and training

- **State Research Needs**
 - ECOS/Environmental Research Institute of the States (ERIS) surveys
- ***ECOS and ORD: Partners for Meeting State Research Needs, Sept 2017***
 - This [summary](#) compiles 102 stories of how ORD research and technical assistance during the past several years supported states
- **Memorandum of Agreement (MOA) with ECOS and ASTHO**
 - Recent project on how states communicate the risks of per- and poly-fluorinated alkyl substances (PFAS) and harmful algal blooms (HABs)
- **Webinars on Research Products and Tools**
 - *EPA Tools & Resources* monthly public webinar series
- **Outreach and Collaboration**
 - Lab visits to share ORD science & technical capabilities and discuss topics of interest to states and their science needs



"Ammonia residual in the distribution system can cause nitrification and other operational 'nightmares.' This EPA ORD supported pilot project in Palo is successful and the use of biologically active filters is an innovative, emerging drinking water technology that can be a viable option for certain other systems." — Ex. 5 Deliberative Process (DP) Director, Environmental Services Division, Iowa Dept. of Natural Resources

Research Products and Tools

To help ensure that the tools and resources EPA develops are accessible and useful to needs on the ground, ORD hosts a public monthly *EPA Tools and Resources* webinar series to share our research, demonstrate tools and seek input from our partners.

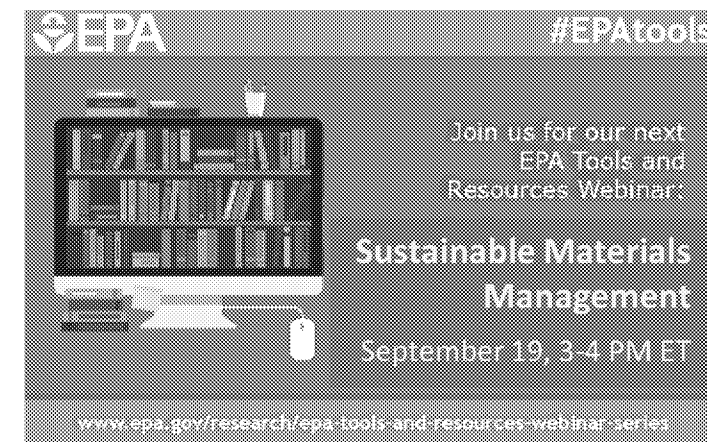
Webinar Topics:

- ✓ Publically available, easily understandable, and not overly technical
- ✓ Relevant to identified state science needs, including case studies
- ✓ Highlighting work at the nexus of public health and the environment

When?

Generally **the 3rd Wednesday of every month, 3-4 PM ET.**

Past webinars and upcoming registration at: <https://www.epa.gov/research/epa-tools-and-resources-webinar-series>



NERL Led Webinars

- October 2018: Water reuse
- April 30, 2018: Multi-media modeling of lead exposure
- November 13, 2017: Monitoring Cyanobacteria with Satellites
- October 17, 2017: EnviroAtlas
- September 20, 2017: Village Blue
- August 17, 2016: Health Impact Assessment
- June 29, 2016: Air Quality Monitoring and Community Science
- April 20, 2016: Community-Focused Exposure and Risk Screening Tool (C-FERST)
- January 20, 2016: EnviroAtlas and the Eco-Health Relationship Browser: Connecting Ecosystems, People and Well-Being

Working with States on Public Health

EPA-ECOS-ASTHO Memorandum of Agreement



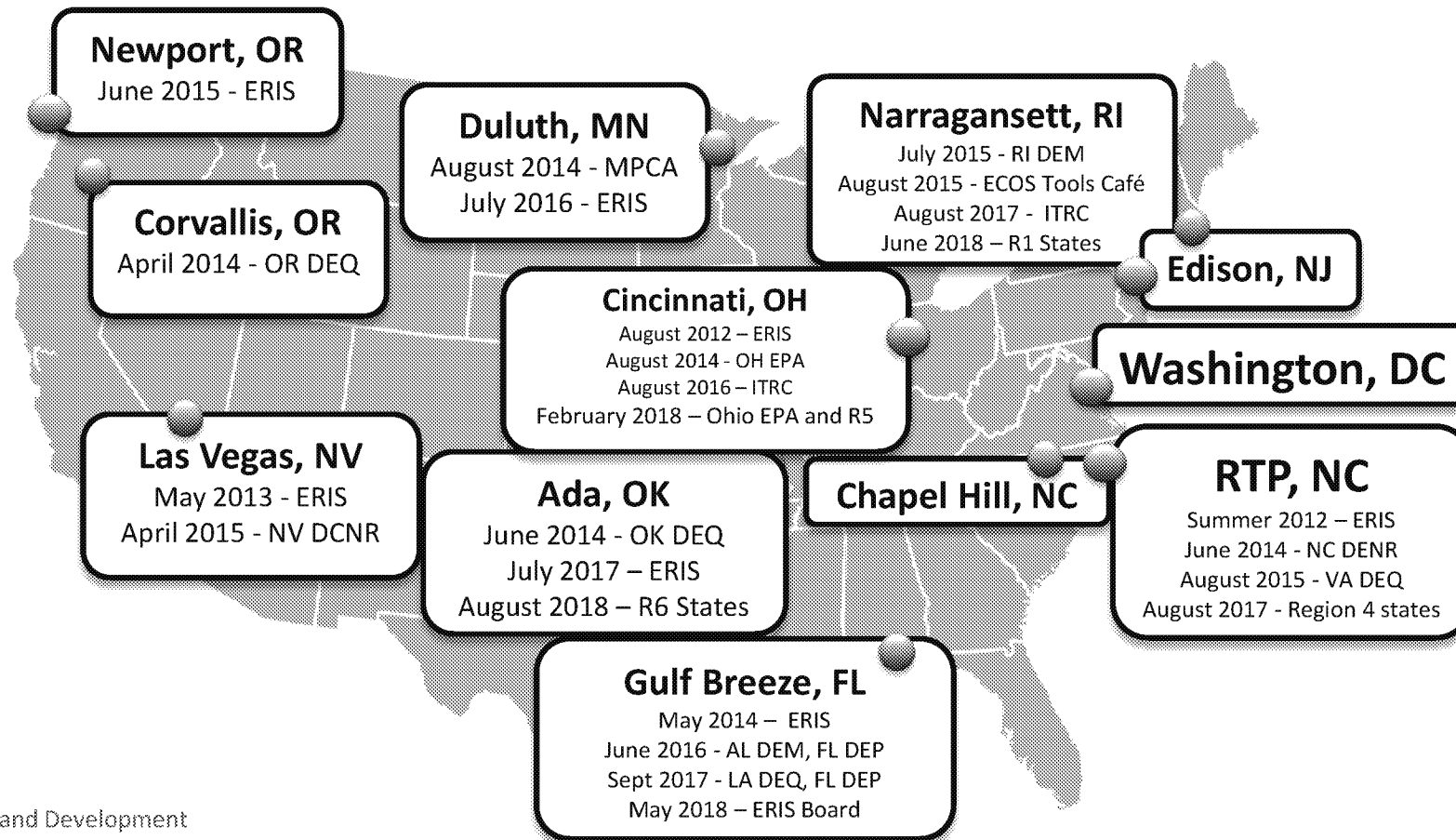
- In an effort to illustrate the connection between public health and the environment and forge a stronger partnership between EPA and state environmental and health officials, EPA, ECOS and ASTHO signed a Memorandum of Agreement (MOA) in April 2016
- Purpose is to advance cooperative initiatives pertaining to both public and environmental health
- MOA serves to formalize the cooperative governance that is necessary to ensure that the environment is managed in a way that enhances public health and prevents negative health consequences

ECOS and the Association of State and Territorial Health Officials (ASTHO) worked on a recent project with EPA to highlight state-level risk communication of PFAS and harmful algal blooms (HABs).

Outreach and Collaboration

Coordinate visits for ECOS members and other state officials to ORD labs in their state:

- Coordinate with EPA region, as well as program offices co-located at these facilities
- Discuss topics of interest to states and related science needs, as well as potential collaborations
- Share ORD S&T capabilities and EPA research to support states



NERL Stories – Support to States

TOPIC	State(s)
qPCR Method/Training	MI
SHEDS-HT	CA
Water quality criteria - brine shrimp and flies	UT
CyAN	Multiple
Long Island Ozone Study (LISTOS)	NY, NJ, CT, RI
Sensor Performance Benchmark Deliberation Workshop	ECOS
Dover HIA	DE
PFAS	OH, NH, NJ, NC
WQ sensors at DWT plants	NC
Air Sensors	CA (SCAQMD)

TOPIC	State(s)
CAIRSENSE (air sensors)	GA
Village Blue	MD
eDNA - monitoring threatened/endangered species	MD, WV, PA
Chesapeake Bay modeling tools	DE, VA, MD, NY, PA
Microcystins in Lake Pontchartrain	LA
Tire Crumb	CA
LeanPath	SC
Assessment model for introduction of novel water technologies	CA
Lake MI Ozone Study	WI, MI
Advanced Air Monitoring Tools	MD, CA, CO, CT, KY, NH, OR

TOPIC	State(s)
Village Green	IL, NC, CT, TX, KS, OK, PA, DC
Wintertime PM 2.5 Study (Fine Particulate)	UT
Virtual Beach	WI
Fish kills and unknown contamination	OK
C-FERST - Multnomah	OR
STEM RTP	OR
Educational Partnerships for Innovation in Communities (EPIC) Network	CA
CMAQ	MD
CAES	ID
MARKAL	CT, ME, MA, NH, NJ, NY, RI, VT

https://www.epa.gov/sites/production/files/2018-08/documents/state_stories_august_2018_edition_lm_0.pdf

Opportunities for NERL

- **COMMUNICATIONS:** Stories delivered to state environmental commissioners (ongoing or completed work in direct support of states)
- **NATIONAL WEBINAR:** deployment ready resources that fits state priorities
- **RESEARCH TRANSLATION:** pilot opportunities to engage early-on in research development/implementation
- **NEW STRAPS:** support high priority state needs through proposed StRAP projects

Takeaway Messages

- ✓ **Keep the NERL State Coordination Team Rep informed** of activities with significant state involvement
- ✓ **Take advantage of opportunities** to communicate your research! (Stories; Webinars)
- ✓ **Enhance the impact of your research** by working in partnership with states (Pilots; Projects; StRAPs)

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Thank you!